



DEPARTMENT OF THE NAVY

NORTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

10 INDUSTRIAL HIGHWAY

MAIL STOP, #82

LESTER, PA 19113-2090

N00158.AR.000137
NAS WILLOW GROVE
5090.3a

IN REPLY REFER TO

5090
Code 1821/JC

23 JUN 1999

Ms. Pam Reigh
Pennsylvania Department of Environmental Protection
555 North Lane
Conshohocken, PA 19428

Dear Pam:

SUBJECT: FINAL REPORT ON PERFORMANCE OF VACUUM-ENHANCED LNAPL RECOVERY
SYSTEM FOR CALENDAR YEAR 1998; IR SITE 10 - NAVY FUEL FARM;
NASJRE WILLOW GROVE, PA

The Navy is enclosing a Final Report regarding System Performance of the LNAPL Recovery System that was installed at the Navy's Fuel Farm (IR Site 10). Installation of the full-scale LNAPL Recovery System was completed in January 1998 at which time operations began. This report summarizes and describes the system's performance for the initial year of operation covering the period from January 1998 until January 1999.

The report will conclude that the LNAPL Recovery System has been effective in both the removal of LNAPL as well as the overall reduction of the aerial extent of LNAPL from the site.

In addition, the report has recommended a modification for the vapor recovery and treatment system. The current treatment for recovered vapors uses a thermal oxidizer to remove contaminants from the vapor-phase. EA Engineering has recommended that this system be replaced by using a catalytic oxidation process which operates at a much lower temperature than does the thermal oxidizer thereby reducing supplemental fuel costs and reducing the overall operational costs of the system. Due to the cost savings involved, the Navy will pursue conversion of the current thermal oxidizer to catalytic operation as recommended.

If you have any questions or would like additional information, please feel free to call me at (610) 595-0567, extension 163.

Sincerely,

JAMES L. COLTER
Remedial Project Manager
By direction of the
Commanding Officer

Enclosure